

## M.L. 2015 Environment and Natural Resources Trust Fund Recommendations (FY 2016)

*The Legislative-Citizen Commission on Minnesota's Resources (LCCMR) has selected 64 projects totaling \$45.8 million to recommend to the 2015 Minnesota Legislature for funding from the Environment and Natural Resources Trust Fund (ENRTF). The recommendations are the result of the LCCMR's 2015 Request for Proposal (RFP) process, in which 152 proposals requesting a total of approximately \$126.3 million were received and considered through a competitive, multi-stage evaluation. The recommendations range from full funding for the full proposal and dollar amount requested to partial funding for specific proposal elements and partial dollar amounts requested.*

Topic Area	\$ Recommended (\$45,851,000)	Percentage of Total Recommendation
<b>Subd. 03 Foundational Natural Resource Data and Information</b> 19 Appropriations	\$12,482,000	27.22%
<b>Subd. 04 Water Resources</b> 9 Appropriations	\$3,065,000	6.68%
<b>Subd. 05 Environmental Education</b> 5 Appropriations	\$1,004,000	2.19%
<b>Subd. 06 Aquatic and Terrestrial Invasive Species</b> 4 Appropriations	\$6,071,000	13.24%
<b>Subd. 07 Air Quality, Climate Change, and Renewable Energy</b> 4 Appropriations	\$3,268,000	7.13%
<b>Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat</b> 11 Appropriations	\$4,646,000	10.13%
<b>Subd. 09 Land Acquisition for Habitat and Recreation</b> 10 Appropriations	\$14,190,000	30.95%
<b>Subd. 10. Administration and Contract Agreement Reimbursement</b> 2 Appropriations	\$1,125,000	2.45%
<b>TOTAL \$ RECOMMENDATION</b>	<b>\$45,851,000</b>	<b>100.00%</b>

### Fund Source

<b>FY 2016 - Environment and Natural Resources Trust Fund (ENRTF)</b>	<b>\$45,792,000</b>
<b>FY 2016 - Great Lakes Protection Account (GLPA)</b>	<b>\$59,000</b>
<b>TOTAL \$ RECOMMENDATION</b>	<b>\$45,851,000</b>

**M.L. 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2016)**

Subd.	ENRTF ID	Title	Total LCCMR \$ Recommended	LCCMR \$ Recommended	LCCMR \$ Recommended	Affiliation	Program Manager	Region of Impact*
				ENRTF: FY 2016	GLPA: FY 2016			
Subd. 03 Foundational Natural Resource Data and Information (19 Recommendations - Subtotal = \$12,482,000 )								
03a	001-A	County Geologic Atlases - Part A	\$2,040,000	\$2,040,000	\$0	U of MN - MN Geological Survey	Dale Setterholm	Statewide
03b	006-A	County Geologic Atlases - Part B	\$2,000,000	\$2,000,000	\$0	MN DNR	Jan Falteisek	Statewide
03c	002-A	Minnesota Biological Survey	\$2,000,000	\$2,000,000	\$0	MN DNR	Carmen Converse	Statewide
03d	005-A	Minnesota Biodiversity Atlas for Enhanced Natural Resource Management	\$340,000	\$340,000	\$0	U of MN - Bell Museum of Natural History	Keith Barker	Statewide
03e	003-A	Updating the National Wetland Inventory for Minnesota - Phase V	\$1,500,000	\$1,500,000	\$0	MN DNR	Steve Kloiber	Statewide
03f	014-A	Creating a Statewide Wetland Bird Monitoring Program	\$146,000	\$146,000	\$0	Audubon Minnesota	Mark Martell	Statewide
03g	011-A	Minnesota Native Bee Atlas	\$790,000	\$790,000	\$0	U of MN	Robert Blair	Statewide
03h	008-A	Reintroduction and Interpretation of Bison in Minnesota State Parks	\$600,000	\$600,000	\$0	MN DNR	Edward Quinn	Statewide
03i	004-A	Endangered Bats, White-Nose Syndrome, and Forest Habitat	\$1,250,000	\$1,250,000	\$0	MN DNR	Richard Baker	Statewide
03j	007-A	Assessing Contaminants in Minnesota Loons and Pelicans - Phase III	\$141,000	\$141,000	\$0	MN DNR	Carrol Henderson	Statewide
03k	017-A	Movement and Seasonal Habitat Use of Minnesota Elk	\$200,000	\$200,000	\$0	MN DNR	Gino D'Angelo	NW
03l	013-A	Genetic and Camera Techniques to Estimate Carnivore Populations	\$200,000	\$200,000	\$0	U of MN - NRRI	Ron Moen	Central, NE, NW
03m	016-A	Turtle Population Dynamics in an Urban Lake	\$250,000	\$250,000	\$0	University of St. Thomas	Jennifer McGuire	Metro
03n	031-A	Digitization of Historic Gullion Ruffed Grouse Research	\$75,000	\$75,000	\$0	Central Lakes College	Kent Montgomery	Central, NE
03o	009-A	Effects of Grazing Versus Fire for Prairie Management	\$414,000	\$414,000	\$0	U of MN	Karen Oberhauser	Statewide
03p	010-A	Assessing Ecological Impact of St. Anthony Falls Lock Closure	\$125,000	\$125,000	\$0	Minneapolis Riverfront Partnership	Kathleen Boe	Metro
03q	020-A	Foundational Dataset Characterizing Historic Forest Disturbance Impacts	\$200,000	\$200,000	\$0	U of MN	Michael Falkowski	NE, NW
03r	024-A	Hydrologic Effects of Contemporary Forest Practices in Minnesota	\$150,000	\$150,000	\$0	U of MN	Diana Karwan	NE

SOURCE: LCCMR Staff

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**M.L. 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2016)**

Subd.	ENRTF ID	Title	Total LCCMR \$ Recommended	LCCMR \$ Recommended	LCCMR \$ Recommended	Affiliation	Program Manager	Region of Impact*
				ENRTF: FY 2016	GLPA: FY 2016			
03s	018-A	Habitat Mitigation for Goblin Fern Conservation	\$61,000	\$61,000	\$0	Leech Lake Band of Ojibwe	Bobby Henderson	Central
Foundational Natural Resource Data and Information Subtotal =			\$12,482,000	\$12,482,000	\$0			
Subd. 04 Water Resources (9 Recommendations - Subtotal = \$3,065,000 )								
04a	033-B	Understanding Water Scarcity, Threats, and Values to Improve Management	\$234,000	\$234,000	\$0	U of MN	Bonnie Keeler	Statewide
04b	034-B	Biofilm Technology for Water Nutrient Removal	\$281,000	\$281,000	\$0	U of MN	Bo Hu	Statewide
04c	036-B	Biological Consequences of Septic Pollution in Minnesota Lakes	\$364,000	\$364,000	\$0	St. Cloud State University	Heiko Schoenfuss	Statewide
04d	035-B	Preventing Phosphorous from Entering Water Resources through Drain Tiles	\$505,000	\$505,000	\$0	U of MN	Kenneth Valentas	Statewide
04e	047-B	Southeast Minnesota Cover Crop and Soil Health Initiatives	\$253,000	\$253,000	\$0	Board of Water and Soil Resources	Matt Drewitz	SE
04f	037-B	Southeast Minnesota Subsurface Drainage Impacts on Groundwater Recharge	\$488,000	\$488,000	\$0	U.S. Geological Survey	Erik Smith	SE
04g	045-B	Using Hydroacoustics to Monitor Sediment in Minnesota Rivers	\$455,000	\$455,000	\$0	U.S. Geological Survey	Christopher Ellison	Central, Metro, SE
04h	048-B	Assessment of Irrigation Efficiencies in Benton County	\$431,000	\$431,000	\$0	Benton Soil and Water Conservation District	Gerry Maciej	Central
04i	060-B	Shoreview Water Consumption and Groundwater Awareness Project	\$54,000	\$54,000	\$0	City of Shoreview	Jessica Schaum	Metro
Water Resources Subtotal =			\$3,065,000	\$3,065,000	\$0			
Subd. 05 Environmental Education (5 Recommendations - Subtotal = \$1,004,000 )								
05a	065-C	Promotion of Alternative Ammunition to Protect Wildlife from Lead Poisoning	\$132,000	\$132,000	\$0	U of MN	Julia Ponder	Statewide
05b	066-C	Connecting Students with Watersheds through Hands-On Learning	\$400,000	\$400,000	\$0	Minnesota Trout Unlimited	John Lenczewski	Statewide
05c	067-C	Zumbro River Watershed Recreational Learning Stewardship Sites	\$300,000	\$300,000	\$0	Zumbro Watershed Partnership	Lawrence Svien	SE
05d	073-C	Students Engaging Local Watersheds Using Mobile Technologies	\$147,000	\$147,000	\$0	Twin Cities Public Television	Joan Freese	Statewide
05e	074-C	Mississippi River Water Journey Camps	\$25,000	\$25,000	\$0	U of MN	Beth Mercer-Taylor	Metro
Environmental Education Subtotal =			\$1,004,000	\$1,004,000	\$0			
Subd. 06 Aquatic and Terrestrial Invasive Species (4 Recommendations - Subtotal = \$6,071,000 )								

SOURCE: LCCMR Staff

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**Agenda Item: 05a**

**M.L. 2015 Environment and Natural Resources Trust Fund (ENRTF) Recommendations (FY 2016)**

Subd.	ENRTF ID	Title	Total LCCMR \$ Recommended	LCCMR \$ Recommended	LCCMR \$ Recommended	Affiliation	Program Manager	Region of Impact*
				ENRTF: FY 2016	GLPA: FY 2016			
06a	081-D	Minnesota Terrestrial Invasive Plants and Pests Center	\$5,000,000	\$5,000,000	\$0	U of MN	Brian Buhr	Statewide
06b	082-D	Emerald Ash Borer Ecological and Hydrological Impacts – Phase II	\$400,000	\$400,000	\$0	U of MN	Anthony D'Amato	Statewide
06c	083-D	Biological Control of Canada Thistle	\$300,000	\$300,000	\$0	U of MN	Roger Becker	Statewide
06d	084-D	Preventing a New Disease of Pines in Minnesota	\$371,000	\$371,000	\$0	U of MN	Robert Blanchette	Statewide
Aquatic and Terrestrial Invasive Species Subtotal =			\$6,071,000	\$6,071,000	\$0			
Subd. 07 Air Quality, Climate Change, and Renewable Energy (4 Recommendations - Subtotal = \$3,268,000 )								
07a	096-E	Analysis of Minnesota Energy Systems to Develop Future Energy Strategies	\$1,000,000	\$1,000,000	\$0	Legislative Energy Commission	Annie Levenson-Falk	Statewide
07b	101-E	Renewable and Sustainable Fertilizers Produced Locally	\$1,000,000	\$1,000,000	\$0	U of MN	Alon McCormick	Statewide
07c	110-E	Reducing Emissions from Open Burning through Biomass Gasification	\$268,000	\$268,000	\$0	U of MN	William Northrop	Metro, SW
07d	116-E	Building Deconstruction to Reduce Greenhouse Gas Emissions and Solid Waste	\$1,000,000	\$1,000,000	\$0	The NetWork for Better Futures d/b/a Better Futures Minnesota	Steve Thomas	Central, Metro, NE, NW
Air Quality, Climate Change, and Renewable Energy Subtotal =			\$3,268,000	\$3,268,000	\$0			
Subd. 08 Methods to Protect, Restore, and Enhance Land, Water, and Habitat (11 Recommendations - Subtotal = \$4,646,000 )								
08a	117-F	Prioritizing Future Management of North Shore Trout Streams	\$416,000	\$357,000	\$59,000	U of MN - NRRI	Lucinda Johnson	NE
08b	118-F	Thirteen Counties Propagating Native Plants and Restoring Diverse Habitats	\$495,000	\$495,000	\$0	Martin County Soil and Water Conservation	Rich Perrine	Central, NE, NW, SW
08c	119-F	Preserving and Protecting Minnesota Native Orchid Species	\$167,000	\$167,000	\$0	U of MN - Landscape Arboretum	David Remucal	Statewide
08d	122-F	Acceleration of Minnesota Conservation Assistance - Final Phase	\$1,000,000	\$1,000,000	\$0	Board of Water and Soil Resources	Tabor Hoek	Statewide
08e	126-F	Metro Conservation Corridors Phase VIII - Prairie, Forest, and Savanna Restoration in Greater Metropolitan Area	\$276,000	\$276,000	\$0	Friends of the Mississippi River	Tom Lewanski	Metro
08f	121-F	Metro Conservation Corridors Phase VIII - Enhancing Restoration Techniques for Improved Climate Resilience and Pollinator Conservation	\$400,000	\$400,000	\$0	Great River Greening	Wiley Buck	Metro
08g	123-F	Minnesota State University Moorhead Science Center Restoration and Monitoring	\$527,000	\$527,000	\$0	Moorhead State University	Brian Wisenden	NW

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08h	127-F	Improving Community Forests Through Citizen Engagement	\$800,000	\$800,000	\$0	Minnesota Pollution Control Agency	Sarah Rudolf	Statewide
08i	128-F	Flood Recovery on Sargent Creek Duluth Habitat Restoration	\$300,000	\$300,000	\$0	City of Duluth	Christopher Kleist	NE
08j	129-F	Shoreland Protection for the Lower St. Croix River	\$190,000	\$190,000	\$0	St. Croix River Association	Deb Ryun	Metro
08k	135-F	Redwood and Renville Counties Outdoor Recreation and Conservation Master Plan	\$75,000	\$75,000	\$0	Redwood County and Renville County	Mark Erickson	Central, SW
Methods to Protect, Restore, and Enhance Land, Water, and Habitat Subtotal =			\$4,646,000	\$4,587,000	\$59,000			
Subd. 09 Land Acquisition for Habitat and Recreation (10 Recommendations - Subtotal = \$14,190,000 )								
09a	139-G	State Parks and State Trails Land Acquisitions	\$1,500,000	\$1,500,000	\$0	MN DNR	Jennifer Christie	Statewide
09b	136-G	Metropolitan Regional Park System Land Acquisition - Phase IV	\$1,000,000	\$1,000,000	\$0	Metropolitan Council	Arne Stefferud	Metro
09c	137-G	SNA Acquisition, Restoration, Enhancement and Public Engagement	\$4,000,000	\$4,000,000	\$0	MN DNR	Peggy Booth	Statewide
09d	138-G	Native Prairie Stewardship and Prairie Bank Easement Acquisition	\$3,500,000	\$3,500,000	\$0	MN DNR	Jason Garms	Central, NW, SE, SW
09e	145-G 148-G	Metro Conservation Corridors Phase VIII - Coordination and Mapping and Conservation Easements	\$540,000	\$540,000	\$0	Minnesota Land Trust	John Brosnan	Metro
09f	144-G	Metro Conservation Corridors Phase VIII - Strategic Lands Protection	\$750,000	\$750,000	\$0	The Trust for Public Land	Danielle Salus	Metro
09g	141-G	Metro Conservation Corridors Phase VIII - Priority Expansion of Minnesota Valley National Wildlife Refuge	\$500,000	\$500,000	\$0	Minnesota Valley National Wildlife Refuge Trust Inc	Deborah Loon	Metro
09h	143-G	Metro Conservation Corridors Phase VIII - Wildlife Management Area Acquisition	\$400,000	\$400,000	\$0	MN DNR	Patrick Rivers	Metro
09i	142-G	Mesabi Trail Development Soudan to Ely - Phase II	\$1,000,000	\$1,000,000	\$0	St. Louis & Lake Counties Regional	Bob Manzoline	NE
09j	147-G	Multi-benefit Watershed Scale Conservation on North Central Lakes	\$1,000,000	\$1,000,000	\$0	Leech Lake Area Watershed Foundation	Lindsey Ketchel	Central
Land Acquisition for Habitat and Recreation Subtotal =			\$14,190,000	\$14,190,000	\$0			
Subd. 10 Administration and Contract Agreement Reimbursement (2 Recommendation - Subtotal = \$1,125,000 )								
10a	xx	Legislative-Citizen Commission on Minnesota Resources (LCCMR)	\$990,000	\$990,000	\$0	Legislative-Citizen Commission on	Susan Thornton	Statewide

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				ENRTF: FY 2016	GLPA: FY 2016			
10b	152-H	Contract Agreement Reimbursement	\$135,000	\$135,000	\$0	MN DNR	Amanda Graeber	Statewide
<b>Administration and Contract Agreement Reimbursement Subtotal =</b>			<b>\$1,125,000</b>	<b>\$1,125,000</b>	<b>\$0</b>			
<b>Total \$ Recommendation =</b>			<b>\$45,851,000</b>	<b>\$45,792,000</b>	<b>\$59,000</b>			

\*Region of Impact designated in the State include Statewide, Central, Metro, NE, NW, SE, SW. Metro region includes the 11 counties of Anoka, Carver, Chisago, Dakota, Hennepin, Isanti, Ramsey, Scott, Sherburne, Washington, and Wright.